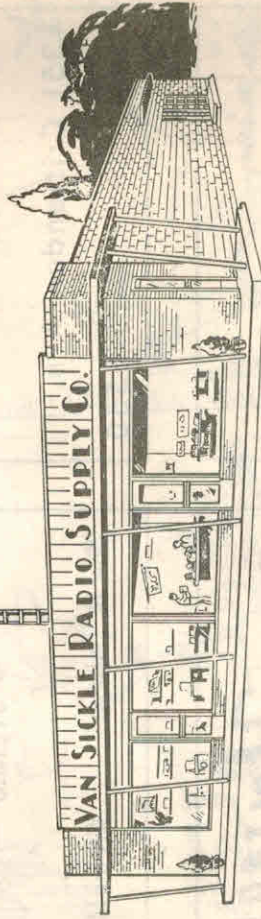


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W9KJF

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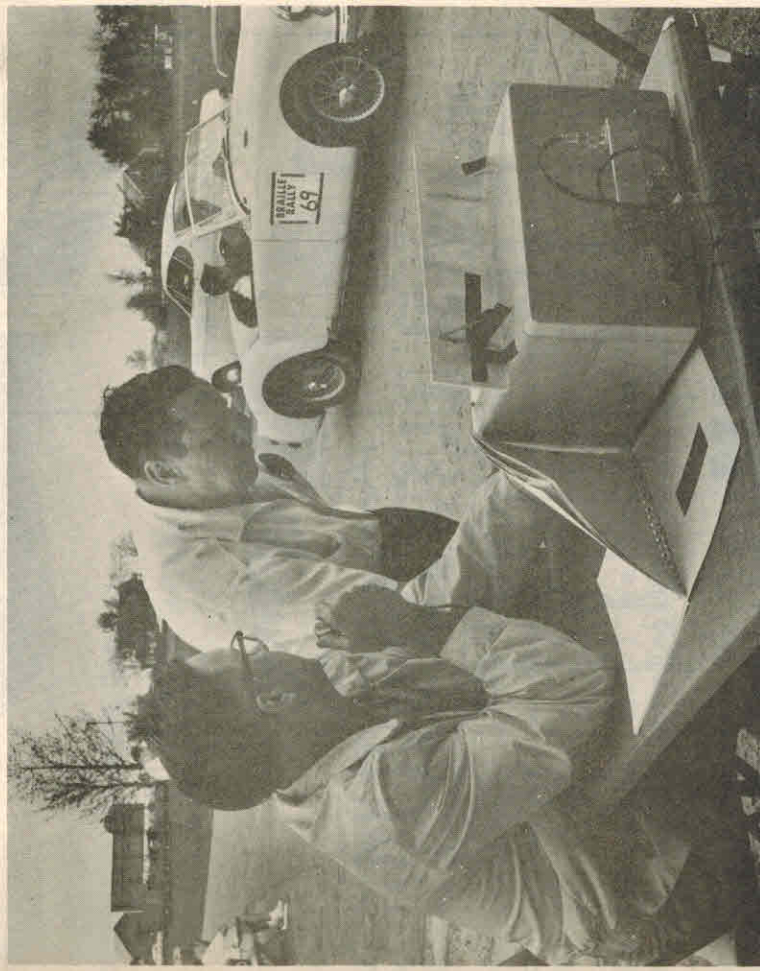
# Amateur

FEBRUARY - 1963

PUBLISHED BY

INDIANAPOLIS RADIO CLUB, INC.

FOUNDED 1916



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2223 E. 74th Street  
Indianapolis 20, Indiana

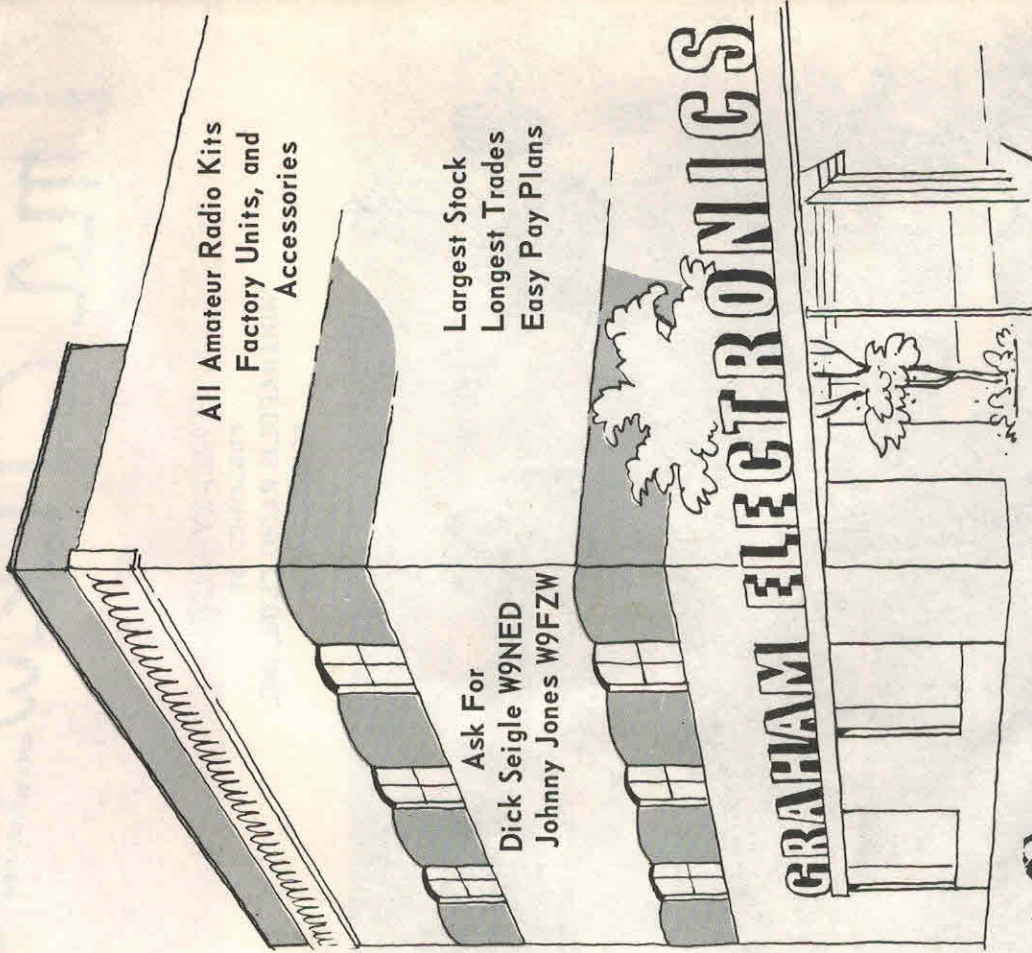


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The Indianapolis Radio Club meets on the 2nd and 4th Friday of each month at the Indianapolis Park Board Building located at 29th and Harding Streets. Meetings start promptly at 8:00 P.M., EST.

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Ama-Chewer is published monthly by and for I.R.C. and all Amateurs in this area. Non-Members of I.R.C. may subscribe at the rate of \$1.00 per year.

Publication is on the 3rd Friday of each month, with all news items and ads due no later than the first Friday of each month.

Ham-Ads (5 line limit) are free to members and subscribers. Others may use this facility at the rate of 50 cents per ad.

Ama-Chewer welcomes the forwarding of information on coming events of other clubs in the area for publication in the program section.

\*\*\*\*\*

There are many future programs which we feel will most certainly be of interest both to Club members and their friends. All Club members are encouraged to bring a friend to any of our Club meetings.

Remember -- there is always plenty of coffee and donuts, as well as soft drinks at the big "bull session" which follows every meeting.

We will be looking forward to meeting both you and your friends at our future meetings.

APRIL 26th This evening's program will be presented by an FAA official. His talk will be concerned with the radio and radar equipment used by aircraft. This program is in preparation for the Club tour on April 27th.

APRIL 27th On this day the Indianapolis Radio Club will be the guests of Weir Cook Airport. The Club will tour the radio and radar facilities. This should prove to be one of our most entertaining as well as intellectually enlightening trips of the year.

MAY 10th Home Brew Nite will be held the evening of our first meeting in May. All Club members are encouraged to bring in their favorite brand of Home Brew and enter the contest.

MAY 24th Annual Auction. Help out the XYL, and get rid of the junk \*.

JUNE 22nd FIELD DAY

\* Junk - special term used by unintelligent non-hams.

It was very gratifying to see Jim Rees, K9YKH, volunteer the use of not one but two golf courses for the Club for field day. It's this spirit of volunteering that has always attracted me to the IRC. Whenever someone suggests a project there is never a lack of volunteers in the Club to get the project working. This is a very healthy sign in any organization.

The next big project of the Club, the Indianapolis & Vicinity Directory, is taking a little longer to produce than expected but it should be in the final stage by the time this appears (Maybe Pat will pull a fast one and get it done before this appears, just for laughs.) The Club is certainly fortunate to have someone with the ambition and organizing ability (and business connections) that Pat has to work on this job.

One big stumbling block, the one which has held up the works the most, is that a large number of hams in the area failed to return their cards with the information needed for the Directory. Some were inactive and didn't think they should be listed. Others didn't know many local hams and saw no need for being listed. But the Club's desire is to make the Directory as complete as possible, regardless of the individuals interest in radio.

Some of those contacted on the telephone survey hadn't ever heard of the Directroy and had no interest in it.

It would be a fine idea for everyone connected with the Club to call attention to the Directory, when it comes out, when talking to other local hams. This will increase the popularity of the new Directory, make some additional sales, and pave the way for the next one. (You gotta keep looking forward.)

de K9KTL

## LILLY RADIO CLUB

June 16, 1954 was an important day for the Radio Amateurs at the Eli Lilly Co. in Indianapolis. That evening they were to see the result of months of work they had put into the organization of the Eli Lilly Radio Club.

The club now meets after work on the third Wednesday of each month and is open to hams of any class license employed by the Lilly Company. Meetings are held in one of the conference rooms and usually last from one and a half to two and a half hours. The Club's Board of Officers consists of:

President	Bob Wamsley W9CVP
Secretary-Treasurer	Tony Bowman W9EIR

With a total membership of forty members, thirty are licensed hams and approximately half of those licensed are active on all of the ham bands.

The Club maintains a large variety of test and transmitting equipment which is available to Club members on an "as needed" basis. The inventory includes:

- 2 Instructographs with 10 rolls of tape each
- A signal generator
- A signal tracer
- An audio signal generator
- A 5" scope
- A 72-52 ohm SWR bridge
- A Millen Grid Dip Osc.
- 2 Heath 6ers w/mobile P.S.
- An RF meter
- A Tube checker
- An antenna scope
- A Comm. III, w/VFO
- A Gonset G-50
- Three Halos

This is quite an impressive list for any club, don't you think?

The Club call is W9SFS and the station consists of the G-50 as well as a 6 m. Ground plane mounted about 100 feet in the air.

This growing organization has had many extremely interesting and challenging programs in the past year. Their last speaker was Mr. Bill Williams, W9ZEB, of the Indiana Bell Co. Mr. Williams program concerned the new Telstar Satellite and was supplemented by a 28 minute film. (continued on page #5)

## LILLY RADIO CLUB (Continued)

Future plans include a club room in one of the many Lilly buildings and a new all band Single Side Band transceiver.

Continued success to the Eli Lilly Radio Club.

\*\*\*\*\*

### SPLATTER

The RCA Radio Club will have an auction at 7:30 P.M. on the first Tuesday of each month at the Union Hall on Michigan Street, adjoining the RCA plant. Anyone may bring items for sale through the auction, with the Club to receive 10% of the sale price. Minimum prices may be placed on any items put up for sale.

\*\*\*\*\*

Every active amateur is invited by the ARRL to submit a monthly station activity report to his Section Communications manager on the first of each month. Your SCM welcomes Club, net or traffic news as well as operational data from individuals and other groups, and also invites application for one of the many ARRL field organization posts available to qualified amateurs. Appointments are available along the line of your natural interest as an aid to your operating pleasure. Novice and Technician licensees interested in VHF may be eligible for Official Experimental Station appointment, while General and higher class amateurs may qualify for appointments such as ORS, OPS, OO, or OBS, in addition to OES. Effective March 1, SCM's will consider application from Technicians for OBS and VHF PAM, further information concerning this change will appear in March QST. Your SCM, address Page 6, QST, will be happy to furnish forms and additional data.

OFFICIAL BULLETIN NR 881 FROM ARRL HEADQUARTERS WEST HARTFORD CONN JANUARY 10 1963 TO ALL RADIO AMATEURS--

ANNOUNCEMENT IS HEREBY MADE OF THE ADDITION TO THE ARRL COUNTRIES LIST OF BOUVET ISLAND. BOUVET ISLAND IS LOCATED IN SOUTH ATLANTIC OCEAN APPROXIMATELY 1600 MILES SOUTH OF CAPE OF GOOD HOPE, LATITUDE 54 DEGREES SOUTH AND LONGITUDE 5 DEGREES EAST. BOUVET ISLAND IS NORWEGIAN TERRITORY. DXCC CREDIT CLAIMS MAY BE MADE FOR THIS ADDITION STARTING MAY 1, 1963.

CONFIRMATIONS FOR CONTACTS WITH BOUVET ISLAND MUST BE DATED NOVEMBER 15, 1945 OR LATER. DXCC CREDIT CLAIMS FOR THIS ADDITION RECEIVED BEFORE MAY 1, 1963 WILL BE RETURNED WITHOUT CREDIT.

\*\*\*\*\*

SPECIAL W1AW BULLETIN NR 617 FROM ARRL HEADQUARTERS WEST HARTFORD CONN JANUARY 22 1963 TO ALL RADIO AMATEURS-- ATTENTION DXERS. EFFECTIVE MAY 1, 1963 THE FOLLOWING CHANGE WILL BE MADE TO THE ARRL COUNTRIES LIST. THE LISTING OF CHANNEL ISLANDS WILL BE DROPPED AND REPLACED BY THE TWO LISTINGS OF GUERNSEY ISLANDS AND JERSEY ISLAND. THIS IS NOT A DELETION. CREDITS THAT HAVE BEEN GIVEN TOWARD THE CHANNEL ISLANDS LISTING WILL BE AUTOMATICALLY CREDITED TO THE APPROPRIATE LISTING UPON PRESENTATION OF A CONFIRMATION FOR WHICHEVER OF THE TWO NEW LISTINGS NOT PREVIOUSLY CLAIMED. CONFIRMATION FOR CONTACTS WITH EITHER GUERNSEY OR JERSEY MUST BE FOR CONTACTS MADE NOVEMBER 15, 1945 OR LATER. DO NOT SUBMIT CONFIRMATIONS FOR THE CHANGE BEFORE MAY 1 1963.

\*\*\*\*\*

SPECIAL W1AW BULLETIN NR 618 FROM ARRL HEADQUARTERS WEST HARTFORD CONN FEBRUARY 1, 1963 TO ALL RADIO AMATEURS-- ANY AMATEUR INTERESTED IN A DXPEDITION TOUCHING ALL PARTS OF THE WORLD WISHING TO ACCOMPANY THE FORTY TON RAFT LEVI 5 IS REQUESTED TO CONTACT SOUTHWESTERN DIVISION DIRECTOR RAY MEYERS W6MLZ BOX R SAN GABRIEL CALIFORNIA TELEPHONE ATLANTIC 20014. EXPENSES WILL BE PAID DURING PERIOD LEVI 5 IS WATERBORNE OR TRANSPORTED OVER LAND. THIS SCIENTIFIC EXPEDITION IS SPONSORED BY CITY OF REDONDO BEACH AND WILL BE GIVEN NATION WIDE RADIO, TV AND PRESS COVERAGE.

OFFICIAL BULLETIN NR 872 FROM ARRL HEADQUARTERS WEST HARTFORD CONN NOV 8, 1962 TO ALL RADIO AMATEURS--

CANADA AND CHILE HAVE AGREED TO PERMIT AMATEURS OF THE TWO COUNTRIES TO EXCHANGE MESSAGES ON BEHALF OF THIRD PARTIES. THERE MUST BE NO PECUNIARY INTEREST, AND MESSAGES SO EXCHANGED MUST NOT BE IMPORTANT ENOUGH TO JUSTIFY TRANSMISSION BY COMMERCIAL MEANS. CANADIAN AMATEURS MAY ALSO EXCHANGE MESSAGES WITH AMATEURS IN THE UNITED STATES, VENEZUELA, COSTA RICA, HONDURAS AND MEXICO.

\*\*\*\*\*

OFFICIAL BULLETIN NR 882 FROM ARRL HEADQUARTERS WEST HARTFORD CONN JANUARY 17, 1963 TO ALL RADIO AMATEURS--

THE FCC ANNOUNCES THAT A TEMPORARY THIRD PARTY AGREEMENT IS IN FORCE PERMITTING AMATEURS IN THE UNITED STATES TO HANDLE TRAFFIC WITH 4U1TU GENEVA FOR THE PERIOD JANUARY 10 THROUGH FEBRUARY 16, 1963, DURING THE MEETING OF THE CCIR AT ITU HEADQUARTERS.

\*\*\*\*\*

OFFICIAL BULLETIN NR 883 FROM ARRL HEADQUARTERS WEST HARTFORD CONN JANUARY 24, 1963 TO ALL RADIO AMATEURS--

THE LEAGUE IS PLEASED TO ANNOUNCE AT THIS TIME THAT THE NEW NET DIRECTORY IS AVAILABLE FOR DISTRIBUTION. FOR YOUR FREE COPY PLEASE ADDRESS A POSTAL CARD OR RADIOGRAM TO THE COMMUNICATIONS DEPARTMENT ARRL, 38 LA SALLE ROAD, WEST HARTFORD 7, CONNECTICUT.

\*\*\*\*\*

The entire lot of equipment of Silent Key, Don Hunt, W9DOD, is being sold from his shop at the "Minn-A-Don," Trailer Court, 1706 Georgetown Road. Parking spaces are available just north of the pink "Minn-A-Don" sign on Georgetown Road. The shop is at the west end of the driveway.

Following is a partial list of equipment:

1 CE 10A SSB Exciter and 458 VFO.....	\$ 85.00
1 KW Transmitter 4-250 A (with spares)	
2 Six foot cabinets	
1 Supreme Signal Generator.....	\$ 15.00
1 Capacitor Checker.....	\$ 25.00
1 Q meter.....	\$ 30.00
2 BC-453 (Q5'er) and B'cast receiver.....	\$ 12.00
6 Command Xmtr. 40m 80m BC-458.....each	\$ 6.00
1 Impedence Compensator.....	\$ 45.00
1 Signal Tracer.....	\$ 15.00
1 Electronic Switch.....	\$ 10.00
1 Bar Generator.....	\$ 7.00
1 Tripplett Modulation Indicator.....	\$ 15.00
Miscellaneous Junk Box Shelf Stock from 5¢ to \$1.00 per item	
1 Saber Saw and Table.....	\$ 30.00
6 Soldering Irons.....each	\$ 1.00
Metal 5 Drawer Cabinets.....each	\$ 1.50
Miscellaneous Meters.....each	\$ 1.00
1 Onan 2½ KW Power Plan....BRAND NEW.....	\$300.00

All equipment is subject to prior sale.

de W9JJC

Before getting on to new matters in this traffic column, it's necessary to correct an error that appeared in the January issue. Because gremlins got into the printing press, the time for the evening session of the Indiana Phone net appeared incorrectly. The correct time for this net session is 2300 GMT.

Some of the times of the nets listed in the Ama-Chewer are slightly different from the times appearing in the ARRL net directory, because winter band conditions have made changes necessary. When long skip conditons become less troublesome next spring, the morning session of the Phone net probably will start one-half hour earlier and the Sideband and CW nets probably will start one-half hour later.

Now, to some new material. Suppose you are new to traffic work and don't know what to do with your first message. Let's say it's from your next door neighbor who wants to tell his brother in Seattle that he'll be on the West Coast on business next week and would like to drop in for a visit. Should you warm up the rig on 15 or 20 and call "CQ Seattle" to move the message? You might do this, and you might succeed, but your chances aren't nearly as good as they will be if you use a systematic method set up by the ARRL. It's the National Traffic System (NTS), and works like this:

In virtually every state, there is at least one statewide traffic net, and usually several. In the ARRL organization set up, states are "sections" so a statewide net is called a "section net." There also are "region nets" which cover the east, midwest and western areas of the United States. Each section net will have one or more members who also participate in a region net. And each region net has representatives checking into an area net. Then the area nets have stations which transfer traffic from one area to another, either through operators which participate in two area nets, or through the Transcontinental Corps (TCC) which is a group of operators who specialize in handling "long haul" traffic.

So, your best way to get that message to Seattle would be for you to check into one of the Indiana Section nets and give it to a station that can handle out-of-state traffic.

(continued on page #10)

That station will put the message into the Ninth Region Net (9RN), from where it will move to the Central Area Net (CAN), then to the Pacific Area Net (PAN), then to a Washington Section net, and then to a station that can deliver traffic to Seattle. Sometimes one or more of the steps can be bypassed by skilled operators who, for example, might take the message directly from an Indiana Section net to the CAN.

Sound complicated and time consuming? Not really complicated, and seldom time consuming. The net times are arranged so that, as a general rule, region nets meet later than section nets and area nets meet later than region nets. Second sessions of region nets meet later in the evening, after the area nets. This allows operators to move from one net to another in a single evening. It isn't uncommon for a message to move across the continent in a single evening by this chain of nets.

Because most of these nets meet on 75 and 80 meters, the Technician may feel left out, but he needn't. Most countries have 6-meter nets which often are organized for emergency work or rag chewing, but which handle traffic as well. A Technician can put his traffic into his 6-meter net and give it to a General who can put it into the National Traffic System.

de K9KTL

## TECHNIFACTS

Several months ago, Technifacts covered Heathkit's new HR-20 receiver. In this report our reader's learned that this receiver, designed as a mobile all band single sideband receiver, was of the eight tube superheterodyne type. The report stated that the circuit provided sharp selectivity and good image rejection. It briefly explained Heathkit's unique three megacycle IF circuit utilizing a hermetically sealed, lattice type crystal filter.

This month the Ama-Chewer covers the new Heathkit Model HX-20 mobile single sideband transmitter.

The HX-20 transmitter is designed for single sideband and CW use on all of the ham bands, 80 through 10. It is primarily designed as a companion transmitter for the Model HR-20 receiver.

Utilizing a 6L46 as a final amplifier, the transmitter provides 50 watts of output on all bands. A temperature compensated VFO and heterodyne conversion circuitry are used to maintain maximum frequency stability. Including two voltage regulator tubes, the transmitter maintains a compliment of thirteen tubes. Germanium diodes are used in the ALC circuit and in the balanced modulator circuit. Silicon diodes are used in the VOX and anti-trip circuits.

Building time is approximately a week and a half for the experienced kit builder. It is not recommended that this transmitter kit be undertaken by an inexperienced or novice experimenter. This unit must be put together with extreme care due to the fact that there are so many parts in such a small box.

Only two things are needed to tune up the transmitter. They are a good receiver and a VTVM.

In our opinion the Heathkit HX-20 transmitter is a well engineered piece of equipment and should provide many hours of excellent service.

de K9LZJ

Portrait  
Commercial  
Weddings

# PHOTOGRAPHY

by

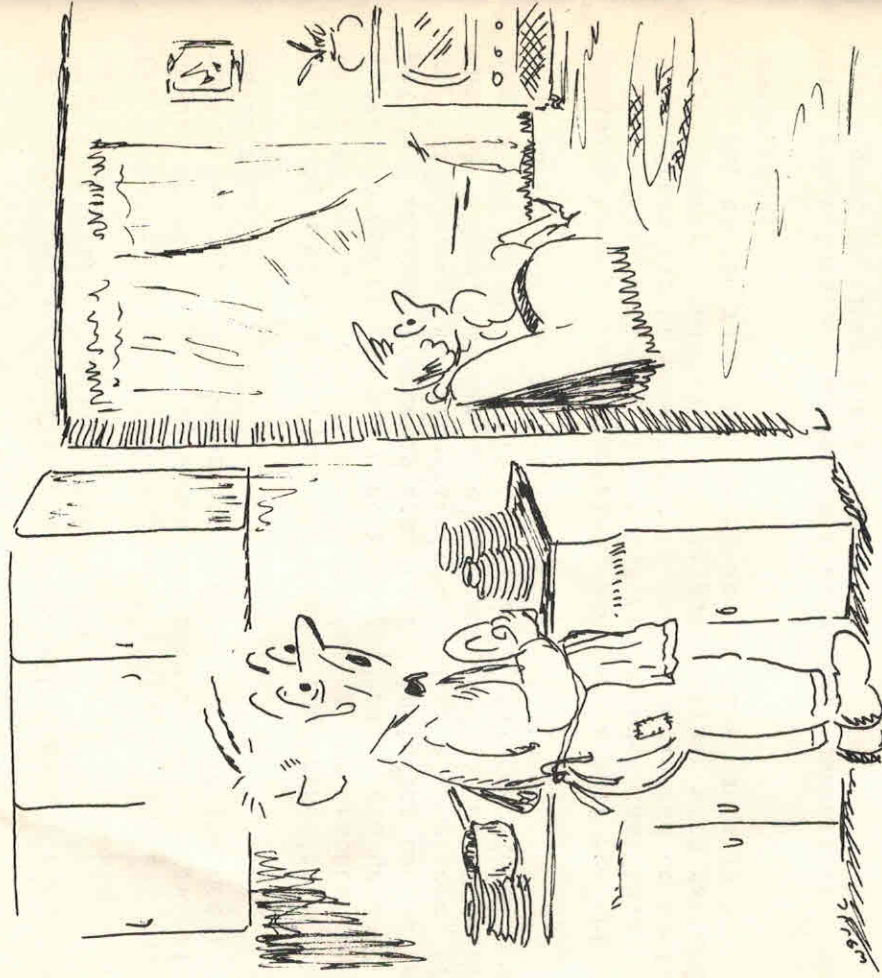
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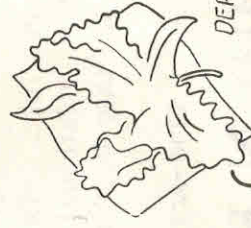
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